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(54) **GAS-FILLED CARRIER AIRCRAFTS AND METHODS OF DISPERSING UNMANNED AIRCRAFT SYSTEMS IN DELIVERING PRODUCTS**

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(57) **ABSTRACT**

In some embodiments, apparatuses and methods are provided herein useful to transport unmanned aircraft systems to delivery products. In some embodiments, gas-filled aerial transport and launch system, comprises: a transport aircraft comprising: a gas chamber; and a carrier compartment where the gas chamber induces a lifting force on the carrier compartment; at least one propulsion system; and a navigation control system that controls the direction of travel of the transport aircraft; wherein the carrier compartment comprises: an unmanned aircraft system (UAS) storage area configured to receive multiple UASs; and an UAS launching bay that enables the UAS to be launched while the transport aircraft is in flight and while the UAS is carrying a package to be delivered.

